AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (ORIGINAL) A system for correcting links to resources in a network, comprising:

a link checking service unit associated with a first group of resources and configured for determining if a location of a resource among the first group of resources has changed; and

a link correction service unit configured for sending a request to the link checking service to determine validity of a link, receiving a response indicating a status of the link, and modifying a document containing the link based on the received response.

- 2. (ORIGINAL) The system of claim 1, wherein said document is a World-Wide Web page, and said link is a hypertext link.
- 3. (ORIGINAL) The system of claim 1, wherein the link checking service unit sends a response message containing a current location of said resource if the location of said resource has changed, and the link correction service, in response to receiving the response message changing a document containing the link to indicate the current location of the resource.
- 4. (ORIGINAL) A method of correcting a link in a document, comprising: sending a request to a link checking service unit to check a status of a resource corresponding to the link;

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receiving a response to said request, the response containing an indication of a changed location of the resource; and

changing the document based on the indication of the changed location of the resource.

- 5. (ORIGINAL) The method of claim 4, wherein the response further includes a link status code indicating a status of the resource.
- 6. (ORIGINAL) The method of claim 4, wherein the document is a World-Wide Web page and the link is a hypertext link.
- 7. (CURRENTLY AMENDED) The method of claim 4, wherein the link includes a first uniform resource locator (URL) and the indication of the changed location of the resource includes a second URL, wherein the document is changing-changed by changing the first URL in the link to the second URL.
- 8. (ORIGINAL) The method of claim 4, wherein the document is changed by automatically deleting the link in the document if the response does not include a replacement link and contains a link status code indicating that the link is invalid.
- 9. (ORIGINAL) The method of claim 4, wherein said sending a request, receiving a response, and changing the document are performed in a web server.
 - 10. (ORIGINAL) An apparatus for correcting a link in a document, comprising:
 a document repository having stored therein one or more documents;
 a corrected document repository having stored therein one or more corrected documents:

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a link correction service unit connected to the document repository and the corrected document repository, and configured to parse a link from one of the documents in the document repository, generate a request for checking the validity of the link, correct the link in response to receipt of a response message containing a corrected link, and store a corrected document having the corrected link in the corrected document repository.

- 11. (ORIGINAL) The apparatus of claim 10, wherein the apparatus is part of a web server.
- 12. (ORIGINAL) The apparatus of claim 10, wherein the link is a hypertext link containing a uniform resource locator (URL) and the document is a web page.
- 13. (ORIGINAL) An apparatus for correcting a link in a document, comprising:

 means for sending a request to a link checking service unit to check a status of a resource corresponding to the link;

means for receiving a response to said request, the response containing an indication of a changed location of the resource; and

means for changing the document based on the indication of the changed location of the resource.

14. (ORIGINAL) A computer readable medium of instructions suitable for execution by a computer, comprising:

program instructions for sending a request to a link checking service to check a status of a resource corresponding to the link;

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program instructions for receiving a response to said request, the response containing an indication of a changed location of the resource; and

program instructions for changing the document based on the indication of the changed location of the resource.

15. (ORIGINAL) A method for determining a status of a link in a document, comprising:

receiving a request to determine the status of the link in the document, wherein the link includes a location indicator of a resource;

detecting if the resource is present within a storage unit at a location indicated by the location indicator;

determining if the resource is present at an alternate location if the resource is not detected in the location indicated by the location indicator; and

returning an alternate location identifier indicating the alternate location of the resource if the resource is determined to be present at the alternate location.

- 16. (ORIGINAL) The method of claim 15, wherein the link is a hypertext link and the location indicator of the resource is a uniform resource locator (URL).
 - 17. (ORIGINAL) The method of claim 16, wherein the resource is a web page.
- 18. (ORIGINAL) The method of claim 16, further comprising returning a link status code indicating whether the resource is present in the storage unit.

- 19. (ORIGINAL) The method of claim 18, wherein the link status code indicates whether the resource has been deleted from the storage unit.
- 20. (ORIGINAL) The method of claim 15, wherein said determining if the resource is present at an alternate location is performed by consulting a mapping table associating a first location indicator with a second location indicator, wherein the first location indicator indicates a prior location of the resource and the second location indicator indicates a present location of the resource.
- 21. (ORIGINAL) The method of claim 20, wherein the first and second location indicators are uniform resource locators (URLs).
 - 22. (ORIGINAL) An apparatus for correcting a link in a document, comprising: a document repository having stored therein one or more documents;

a mapping table unit having stored therein mapping table information associating a first prior resource-locator with a first present resource-locator, the first prior resource-locator indicating a prior location of a first resource within the document repository and the first present resource-locator indicating a present location of the first resource; and

a link checking service unit connected to the document repository and the mapping table unit, and configured to locate an entry in the mapping table information based on a requested resource-locator contained in a request for information concerning location of the first resource, to identify the first present resource-locator stored in association with the first prior resource-locator, and to send a response message containing the first present resource-locator.

- 23. (ORIGINAL) The apparatus of claim 22, wherein the first prior and first present resource-locators are uniform resource locators (URLs).
- 24. (ORIGINAL) The apparatus of claim 22, wherein the mapping table further includes a second prior resource-locator indicating a location of a second resource and a status code indicating a status of the second prior resource-locator.
- 25. (ORIGINAL) The apparatus of claim 24, wherein the status code indicates that the second resource corresponding to the second prior resource-locator has been deleted.
- 26. (ORIGINAL) The apparatus of claim 24, wherein the status code indicates that the second prior resource-locator indicates a present location of the second resource in the document repository.
- 27. (ORIGINAL) The apparatus of claim 22, wherein the apparatus is part of a web server.
- 28. (ORIGINAL) An apparatus for determining a status of a link in a document, comprising:

means for storing one or more resources;

means for receiving a request to determine the status of the link in the document, wherein the link includes a location indicator of a resource;

means for detecting if the resource is present within said means for storing at a location indicated by the location indicator;

means for determining if the resource is present at an alternate location if the resource is not detected in the location indicated by the location indicator; and

means for returning an alternate location identifier indicating the alternate location of the resource if the resource is determined to be present at the alternate location.

29. (ORIGINAL) A computer readable medium of instructions suitable for execution on a computer for determining a status of a link in a document, comprising:

program instructions for receiving a request to determine the status of the link in the document, wherein the link includes a location indicator of a resource;

program instructions for detecting if the resource is present within a storage unit at a location indicated by the location indicator;

program instructions for determining if the resource is present at an alternate location if the resource is not detected in the location indicated by the location indicator; and

program instructions for returning an alternate location identifier indicating the alternate location of the resource if the resource is determined to be present at the alternate location.